

REMARKS

Claims in the Case

Claims 1, 4, 6, 14, 17, 20 and 22 are being amended. Claims 1-2, 4-12, 14-18, 20-26 and 28 are currently pending in the case.

Claims Indicated As Allowable

The Office Action rejected certain pending claims. The Office Action also indicated that claims 5-7, 11, 12, 14-16, 21, 22, 26 and 28 would be allowable if rewritten in independent form.

Rejections to the Claims

The Office Action has rejected the pending independent claims as anticipated §102 by US 6,957,172 (Wegerich). The Office Action further rejects dependent claims based upon Wegerich in light of US 6,105,015 (Nguyen). Applicant respectfully traverses these rejections.

Pending independent claims 1 and 17 are directed to a method and system, respectively, that utilizes a wavelet-based signature to determine the identify of an input signal stream, and thereby identify the source of the signal stream using a database of previously identified signal sources. In other words, the claimed invention is directed to identification of unknown signals sources using wavelet-bases signatures of previously detected signal sources. Independent claims 1 and 17 have been amended to clarify the nature of the claimed invention.

While Wegerich does appear to discuss the use of wavelet processing in signal analysis, Wegerich does not discuss the use of wavelet signatures and a known signal source database to identify unknown signal sources causing a particular input signal stream being analyzed. In particular, Wegerich discloses the use of its system as follows for known signal sources:

The inventive system, method and program product can be used for monitoring a manufacturing process in real-time, or a signal received from equipment that is instrumented to detect the complex signal which contains information about the operational state of a monitored process or other equipment. The invention can also be used for extracting information from a communications transmission signal, for example, that is noisy or is severely degraded. In addition, the present invention may be applied to evaluating states of a complex data stream, as for example, stock market data, or other financial data. Further, the present invention also has application to monitoring and classifying heart signals, brainwaves or other important and complex biological signals.

[Wegerich, col. 4, lns. 39-25.]

Thus, the input signals being analyzed by Wegerich are not taught or suggested to be "an input signal stream" corresponding to signal data from a "signal source of unknown identity," as required by the current claims. And Wegerich does not teach or suggest using a database of wavelet signatures associated with previously identified signal sources in an effort to identify the unknown source for the input signal stream.

Applicant respectfully asserts, therefore, that for at least these reasons, Wegerich does not teach or suggest the claimed inventions, whether considered alone or in combination. Withdrawal of the claim rejections are, therefore, respectfully requested.

Conclusion

In view of the foregoing, it is respectfully submitted that the currently pending claims are in condition for allowance. Accordingly, favorable reconsideration and Notice of Allowance are respectfully requested.

The Examiner is invited to contact the undersigned at the phone number indicated below with any questions or comments, or to otherwise facilitate expeditious and compact prosecution of the application.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Brian W. Peterman", written over a horizontal line.

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